art - Support #17751

a problem with debugging art v2_07-based executables with gdb

09/20/2017 01:48 PM - Pavel Murat

Status: Closed Start date: 09/20/2017

Priority: Normal Due date:

Assignee: Christopher Green % Done: 100%

Category: Third Party Estimated time: 4.00 hours

Target version: Spent time: 6.00 hours

Scope: Internal SSI Package:

Experiment: Mu2e

Description

Dear art experts,

I wonder if the issue below has been reported - turns out that GDB can't parse symbols from one of art v2_07 shared libraries. From what I can see, the net outcome is that GDB can't recover, even if let continue, and, for example, fails to set break points.

-regars, Pasha

murat@mu2egpvm04:/mu2e/app/users/murat/v6 3 1>which gdb

/cvmfs/mu2e.opensciencegrid.org/artexternals/gdb/v7 12/Linux64bit+2.6-2.12/bin/gdb

murat@mu2egpvm04:/mu2e/app/users/murat/v6_3_1>which art

/cvmfs/mu2e.opensciencegrid.org/artexternals/art/v2_07_03/slf6.x86_64.e14.debug/bin/art

murat@mu2egpvm04:/mu2e/app/users/murat/v6 3 1>gdb

GNU gdb (GDB) 7.12

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and "show warranty" for details.

This GDB was configured as "x86 64-pc-linux-gnu".

Type "show configuration" for configuration details.

For bug reporting instructions, please see:

">http://www.gnu.org/software/gdb/bugs/>.

Find the GDB manual and other documentation resources online at:

:.">http://www.gnu.org/software/gdb/documentation/>:.

For help, type "help".

Type "apropos word" to search for commands related to "word".

(gdb) file

/cvmfs/mu2e.opensciencegrid.org/artexternals/art/v2_07_03/slf6.x86_64.e14.debug/lib/libart_Framework_Services_System_Trigger NamesService service.so

Reading symbols from

/cvmfs/mu2e.opensciencegrid.org/artexternals/art/v2_07_03/slf6.x86_64.e14.debug/lib/libart_Framework_Services_System_Trigger NamesService_service.so.../home/greenc/work/cet-is/test-products/gdb/v7_12/src/gdb-7.12/gdb/cp-support.c:1600: demangler-warning: unable to demangle

'_ZSt7forwardIRZN3art19TriggerNamesServiceC4ERKN5fhicl12ParameterSetERKSt6vectorINSt7__cxx1112basic_stringlcSt11char _traitsIcESaIcEEESaISC_EEEUIRT_mRKT0_E_EOSH_RNSt16remove_referenceISH_E4typeE' (demangler failed with signal 11) Unable to dump core, use `ulimit -c unlimited' before executing GDB next time.

/home/greenc/work/cet-is/test-products/gdb/v7_12/src/gdb-7.12/gdb/cp-support.c:1615: demangler-warning: unable to demangle '_ZSt7forwardIRZN3art19TriggerNamesServiceC4ERKN5fhicl12ParameterSetERKSt6vectorINSt7__cxx1112basic_stringlcSt11char _traitslcESalcEESalSC_EEEUIRT_mRKT0_E_EOSH_RNSt16remove_referenceISH_E4typeE' (demangler failed with signal 11) A problem internal to GDB has been detected,

further debugging may prove unreliable.

Related issues:

Has duplicate art - Support #17752: art 2.8.3 generating a bus error under GD...

Closed 09/20/2017

Has duplicate art - Support #19287: un-demangleable symbol

Closed 03/06/2018

History

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#1 - 09/25/2017 11:24 AM - Kyle Knoepfel

- Tracker changed from Bug to Support
- Category set to Third Party
- Status changed from New to Assigned
- Assignee set to Christopher Green
- Estimated time set to 4.00 h

We are working to provide a solution with GDB 8.0, which will work on SLF6 and SL7.

#2 - 09/25/2017 11:25 AM - Kyle Knoepfel

- Has duplicate Support #17752: art 2.8.3 generating a bus error under GDB (SLF6) added

#3 - 09/26/2017 08:11 AM - Christopher Green

- Status changed from Assigned to Resolved
- % Done changed from 0 to 100

Please try https://scisoft.fnal.gov/scisoft/packages/gdb/v8_0_1/gdb-8.0.1-slf6-x86_64.tar.bz2, and let us know if it addresses your problem.

#4 - 10/02/2017 11:53 AM - Kyle Knoepfel

- Status changed from Resolved to Closed

#5 - 03/07/2018 08:17 AM - Kyle Knoepfel

- Is duplicate of Support #19287: un-demangleable symbol added

#6 - 03/07/2018 08:17 AM - Kyle Knoepfel

- Is duplicate of deleted (Support #19287: un-demangleable symbol)

#7 - 03/07/2018 08:18 AM - Kyle Knoepfel

- Has duplicate Support #19287: un-demangleable symbol added

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